

Application Serial No. 10/648,012
Response to Office Action of March 30, 2007
Attorney Docket No. W003-4000

AMENDMENT TO CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application. Six new claims, 54-59 have been added.

Listing of Claims:

Claims 1 - 18 (canceled).

19. (Currently Amended) A wireless digital audio system, comprising:
at least one audio source to produce an audio output representative of music;
at least one digital audio transmitter operatively coupled to said at least one audio source, said at least one audio transmitter comprising:
a first analog low pass filter receiving the audio output from said at least one audio source;
a digital low pass filter;
an analog-to-digital converter (ADC) operatively coupled between said first analog and digital low pass filters;
a first encoder receiving output from said digital low pass filter and being configured to reduce intersymbol interference (ISI);
a second channel encoder operatively coupled to said first encoder and adapted to reduce transmission errors;
a digital modulator operatively coupled to said second channel encoder;
and
a differential phase shift key (DPSK) module receiving output from said digital modulator and a unique user code bit sequence and being configured for direct sequence spread spectrum (DSSS) communication, said DPSK module transmitting a corresponding DSSS signal having said audio output representative of the music and the unique user code bit sequence;
at least one audio receiver configured for digital wireless communication with said at least one audio transmitter ~~and utilizing embedded fuzzy logic to optimize digital signal processing,~~ said at least one audio receiver comprising:

Jun 10 2007 11:49AM

949-955-1877

p. 4

Application Serial No. 10/648,012
Response to Office Action of March 30, 2007
Attorney Docket No. W003-4000

PAGE 4/4 * RCVD AT 6/10/2007 2:45:18 PM [Eastern Daylight Time] * SVR:USPTO-EFAX-1/17 * DNIS:2738300 * CSID:949 955 1877 * DURATION (mm-ss):01:24

BEST AVAILABLE COPY